



SEQUENCE LISTING

<110> ~~REGISTRY~~ Regents of the University of California
Whistler, Jennifer L

<120> METHODS AND COMPOSITIONS FOR MODULATING AGONIST-INDUCED DOWNREGULATION
OF G PROTEIN-COUPLED RECEPTORS

<130> 316E-001510US

<140> US 10/622,373

<141> 2003-07-18

<160> 7

<170> PatentIn version 3.1

<210> 1

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<212> DNA

<213> Homo sapiens

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Arg Leu Ser Lys Thr Glu Arg Asn Ser Gln Thr Asn Ile Ile Ala Ser
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Ser Glu Asp Arg Glu Leu Val Asn Thr Asp Thr Glu Ser Phe Pro Arg
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Arg Lys Ala His Tyr Gln Ala Gly Phe Gln Pro Ser Phe Arg Ser Lys
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Glu Glu Thr Asn Met Gly Ser Trp Cys Cys Pro Arg Pro Thr Ser Lys
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Gln Glu Ala Ser Pro Asn Ser Asp Phe Lys Trp Val Asp Lys Ser Val
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Ser Ser Leu Phe Trp Ser Gly Asp Glu Val Thr Ala Lys Phe His Pro
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Gly Asn Arg Val Lys Asp Ser Asn Arg Ser Met His Met Ala Asn Gln
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Asn Ser Arg Ser Arg Phe Arg Ser Lys Lys Glu Val Tyr Val Glu Ser

290

295

300

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Asn Asn Arg Ala Arg His Arg Ala Lys Arg Glu Ala Cys Ile Asp Phe
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Arg Ala Lys Gln Glu Ala Arg Ser Glu Glu Glu Ala Leu Ile Gly Thr
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Ser Arg Val Arg Thr Ser Phe Leu Glu Asn Met Ile Arg Met Ala
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Pro Pro Tyr Pro Asn Leu Asn Ile Ile Gln Thr Tyr Ile Cys Lys
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1255

1260

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Leu Ala Thr Gly Asn Ala Lys Thr Arg Phe His Val Leu Lys Met
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Leu Leu Asn Leu Ser Glu Asn Leu Phe Met Thr Lys Glu Leu Leu
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Ser Ala Glu Ala Val Ser Glu Phe Ile Gly Leu Phe Asn Arg Glu
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Glu Thr Asn Asp Asn Ile Gln Ile Val Leu Ala Ile Phe Glu Asn
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35 40 45

Arg Pro Lys Thr Glu Thr Lys Ser Val Pro Ala Ala Arg Pro Lys Thr
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Glu Ala Gln Ala Met Ser Gly Ala Arg Pro Lys Thr Glu Val Gln Val
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Met Gly Gly Ala Arg Pro Lys Thr Glu Ala Gln Gly Ile Thr Gly Ala
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Arg Pro Lys Thr Asp Ala Arg Ala Val Gly Gly Ala Arg Ser Lys Thr
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Asp Ala Lys Ala Ile Pro Gly Ala Arg Pro Lys Asp Glu Ala Gln Ala
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Glu Thr Ser Val Arg Ser Trp Pro Arg Glu Glu Ser Asn Thr Arg Ser
245 250 255

Arg His Arg Ala Lys His Gln Thr Asn Pro Arg Ser Arg Pro Arg Ser
260 265 270

Lys Gln Glu Ala Tyr Val Asp Ser Trp Ser Gly Ser Glu Asp Glu Ala
275 280 285

Ser Asn Pro Phe Ser Phe Trp Val Gly Glu Asn Thr Asn Asn Leu Phe
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Arg Pro Arg Val Arg Glu Glu Ala Asn Ile Arg Ser Lys Leu Arg Thr
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Val Ile Ile Gly Ser Trp Phe Trp Ala Glu Lys Glu Ala Ser Leu Glu
385 390 395 400

Gly Gly Ala Ser Ala Ile Cys Glu Ser Glu Pro Gly Thr Glu Glu Gly
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Ala Ile Gly Gly Ser Ala Tyr Trp Ala Glu Glu Lys Ser Ser Leu Gly
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Ala Val Ala Arg Glu Glu Ala Lys Pro Glu Ser Glu Glu Ala Ile
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Phe Gly Ser Trp Phe Trp Asp Arg Asp Glu Ala Cys Phe Asp Leu Asn
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Pro Cys Pro Val Tyr Lys Val Ser Asp Arg Phe Arg Asp Ala Ala Glu
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Glu Leu Asn Ala Ser Ser Arg Pro Gln Thr Trp Asp Glu Val Thr Val
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Lys Asn Leu Glu Leu Ser Pro Glu Gly Glu Glu Gln Glu Ser Leu Leu
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595 600 605

Arg Asp Pro Phe Ile His Glu Ile Ser Lys Ile Ala Met Gly Met Arg
610 615 620

Ser Ala Ser Gln Phe Thr Arg Asp Phe Ile Arg Asp Ser Gly Val Val
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Ser Leu Ile Glu Thr Leu Leu Asn Tyr Pro Ser Ser Arg Val Arg Thr
645 650 655

Ser Phe Leu Glu Asn Met Ile His Met Ala Pro Pro Tyr Pro Asn Leu
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Asn Met Ile Glu Thr Phe Ile Cys Gln Val Cys Glu Glu Thr Leu Ala
675 680 685

His Ser Val Asp Ser Leu Glu Gln Leu Thr Gly Ile Arg Met Leu Arg
690 695 700

His Leu Thr Met Thr Ile Asp Tyr His Thr Leu Ile Ala Asn Tyr Met
705 710 715 720

Ser Gly Phe Leu Ser Leu Leu Thr Thr Ala Asn Ala Arg Thr Lys Phe
725 730 735

His Val Leu Lys Met Leu Leu Asn Leu Ser Glu Asn Pro Ala Val Ala
740 745 750

Lys Lys Leu Phe Ser Ala Lys Ala Leu Ser Ile Phe Val Gly Leu Phe
755 760 765

Asn Ile Glu Glu Thr Asn Asp Asn Ile Gln Ile Val Ile Lys Met Phe
770 775 780

Gln Asn Ile Ser Asn Ile Ile Lys Ser Gly Lys Met Ser Leu Ile Asp
785 790 795 800

Asp Asp Phe Ser Leu Glu Pro Leu Ile Ser Ala Phe Arg Glu Phe Glu
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Glu Leu Ala Lys Gln Leu Gln Ala Gln Ile Asp Asn Gln Asn Asp Pro
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